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THE MACHRIS BRAZILIAN EXPEDITION

BOTANY: Various families

Coordinated by E. YALE DAWSON



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INSTRUCTIONS FOR AUTHORS

Manuscripts for the LOS ANGELES COUNTY MUSEUM CONTRIBUTIONS IN SCIENCE may be in any field of Life or Earth Sciences. Acceptance of papers will be determined by the amount and character of new information and the form in which it is presented. Priority will be given to manuscripts by staff members, or to papers dealing with specimens in the Museum's collections. Manuscripts must conform to CONTRIBUTIONS style and will be examined for suitability by an Editorial Committee. They may also be subject to critical review by competent specialists.

MANUSCRIPT FORM.—(1) The 1960 AIBS Style Manual for Biological Journals is highly recommended as a guide. (2) Typewrite material, using double spacing throughout and leaving ample margins, on only one side of $8\frac{1}{2} \times 11$ inch standard weight paper. (3) Place tables on separate pages. (4) Footnotes should be avoided if possible. (5) Legends for figures and unavoidable footnotes should be typed on separate sheets. Several of one kind may be placed on a sheet. (6) Method of literature citation *must* conform to CONTRIBUTIONS style—see number 50 and later issues. Spell out in full the title of non-English serials and places of publication. (7) A factual summary is recommended for longer papers. (8) A brief abstract should be included for *all* papers. This will be published at the head of each paper.

ILLUSTRATIONS.—All illustrations, including maps and photographs, should be referred to as "figures." All illustrations should be of sufficient clarity and in the proper proportions for reduction to CONTRIBUTIONS page size. Permanent ink should be used in making line drawings and in lettering (do not type on drawings); photographs should be glossy prints of good contrast. Original illustrations will not be returned unless specifically requested when the manuscript is first submitted. Authors may also request their engravings at this time.

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DAVID K. CALDWELL

Editor

THE MACHRIS BRAZILIAN EXPEDITION

BOTANY: Various families

Coordinated by E. YALE DAWSON¹

The plants listed below were obtained on a Los Angeles County Museum expedition in 1956, to Goiás, Brazil, sponsored by Mr. and Mrs. Maurice A. Machris and conducted under the auspices of the Museu Nacional do Brasil (see Delacour, 1957).

They represent the final part of the twenty-two botanical reports² begun in 1957 and in which 51 specialists have participated. Fifty-five new species and subspecies have been described in these reports and several more remain in the hands of systematists who intend to incorporate them in monographic studies. During the intervening six years the great new capital city of Brasilia has been built and occupied in Goiás near the site of one of our base camps, and broad modifications of the native flora are occurring as urban developments spread. Thus, despite a small residue both of living and herbarium specimens remaining unidentified, we have chosen to conclude the botanical results of the Machris Expedition with this paper in order to present without further delay the distribution records provided by our collections. Each identified specimen is indicated by a citation of my field collection number. Detailed locality data for these may be found in the general account of the botany of the expedition (Dawson, 1957). Briefly, however, the specimens bearing numbers from 14133 to 14815 came from the Chapada dos Veadeiros, between Sao Joao da Aliança and Veadeiros, April 13 to May 3, 1956. Those bearing numbers from 14816 to 15236 came from the region between Amaro Leite and Peixe, especially in the southern Serra Dourada, May 15 to June 10, 1956.

The identifications have been made by a number of specialists, as indicated with the name of each family. I wish here to thank them for their co-operation in this work.

Unless otherwise indicated, the first set of specimens is deposited in the Los Angeles County Museum. Duplicates usually have been retained by the specialists.

¹Research Associate, Los Angeles County Museum, and Allan Hancock Foundation, University of Southern California.

²The other reports appeared in this series, *Los Angeles County Contributions in Science*, as numbers 2 through 7, 10, 11, 13, 17, 18, 21 through 24, 26, 28, 30, 32, 35 and 47.

RHODOPHYTA: BATRACHOSPERMACEAE

Det. by H. Skuja, Inst. für systemat. Botanik,
Uppsala, Sweden

Batrachospermum guyanense Kütz. 14809

Sirodotia sp. nov. Skuja ms. 15167 Dr. Skuja says of this unpublished species, "I have created this monoecious *Sirodotia* species of the Section *Helicocladia* many years ago after studying a specimen collected by Löfgren, 1897, in Sao Paulo, Sta. Amara, sub. no. 626 and [included] in Wittrock et Nordstedt Alg. Exs. no. 13516 sub. *B. dillenii* (det. Nordstedt). The same specimen is preserved in the Herbarium de Seccao Botanica e Agronomia de Instituto Biologico in Sao Paulo sub. no. 28856."

PTERIDOPHYTA: POLYPODIACEAE (suppl.)

Det. by K. U. Kramer, Univ. of Utrecht

Lindsaea lancea (L.) Bedd. var. *lancea* 14926

Lindsaea stricta (Sw.) Dyand var. *stricta* 14740; 14274

PHANEROGAMAE

PALMACEAE (suppl.)

Det. by Harold E. Moore, Jr., Bailey Hortorium,
Ithaca, New York

Allagoptera sp. 14222 (reported previously as *Diplotheclium* sp.)

Syagrus campestris (Mart.) H. Wendl. 14433; 14557; 14585

Syagrus comosa (Mart.) Mart. 14458; 15062; 15221

Syagrus oleracea (Mart.) Becc. vel. aff. 15218a

Mauritia sp. 15225

ORCHIDACEAE

A number of specialists have dealt with the Orchidaceae, many of which have been grown under the care of Paul C. Hutchison in the botanical garden of the University of California, Berkeley. Most of the herbarium specimens (and, subsequently, specimens made from cultivated plants) were identified in November 1956 by Leslie A. Garay, then of the University of Toronto. More recent identifications have been provided by Mr. Hutchison, by G. B. Newcomb, by Robert Dressler, and by Charles Schweinfurth.

Epistephium sclerophyllum Lindl 14224

Epistephium praestans Hoehne 14638

Epidendrum ellipticum Graham 14226

Epidendrum ellipticum var. *freybergense* Zimm. 14676

- Epidendrum amblostomoides* Hoehne 15084; Herb. AMES
Epidendrum difforme Jacq. 14959 (det. Newcomb); Herb. UC
Epidendrum linearifolioides Krzl. 15176; Herb. AMES, MO
Oncidium varicosum Lindl. 14273
Oncidium euxanthinum Rchb. f. 14804; Herb. AMES
Cattleya walkeriana Gardn. 14296; 15086; 15087
Notylia wulfschlaegelianae Focke 14398; 14329, Herb. AMES;
14297 (det. Hutchison)
Habenaria rodriguezii Cogn. 14439
Habenaria lepreurii Rchb. f. 14658
Bulbophyllum vittatum Rchb. f. & Warm. 14523
Bulbophyllum insectiferum Barb. Rodr. 14527 (det. Schweinfurth)
Scaphyglottis cuneata Schltr. 14538; 14299 (det. Dressler)
Lanum avicula Hook. 14801
Lockhartia goyasensis Rchb. f. 14865
Lockhartia lunifera Lindl. 14952 (det. Schweinfurth)
Mormodes sinuatum Rchb. f. & Warm. 15061; 15001
Mormodes vinaceum Hoehne (number lost) (det. Dressler)
Hexadesmia rheedii Rchb. f. 14576; Herb. AMES
Catasetum barbatum Lindl. 14407
Cyrtopodium poecilum Rchb. f. & Warm.? 15119 (det. Schweinfurth);
Herb. AMES
Brassavola tuberculata Hook. 14303
Aspasia variegata Lindl. 14953 (det. Dressler)
Eulophidium maculatum (Lindl.) Pfitz 14423 (det. Hutchison)

PORTULACACEAE

det. Paul C. Hutchison,

University of California Botanical Garden

- Portulaca hirsutissima* Camb. 14705

CACTACEAE (suppl.)

det. Paul C. Hutchison

- Discocactus heptacanthus* (Rodr.) Br. & R. 14518
Cereus fernambucensis Lem. 15237

OXALIDACEAE

det. by Alicia Lourteig,

Museum National d'Histoire Naturelle, Paris

Oxalis cytisoides Mart. ex Zucc. 15004*Oxalis umbraticola* St. Hil. 15017*Oxalis goyazensis* Turcj. 14909*Oxalis hirsutissima* Mart. ex Zucc. 14456

LYTHRACEAE

det. by Alicia Lourteig

Cuphea polymorpha St. Hil. 14401*Cuphea fuchsiifolia* St. Hil. 14428*Lafoensia pacari* St. Hil. ssp. *pacari* 14443; 14728*Diplusodon sordidus* Koehne 14600*Diplusodon villosus* Koehne 14221*Diplusodon incanus* Gardner 14397*Diplusodon virgatus* Pohl 14255; 14897*Diplusodon strigosus* Pohl 14829*Diplusodon ramosissimus* Pohl 14834; 15000

CONVOLVULACEAE (suppl.)

det. by Lyman B. Smith, U.S. National Herbarium

Ipomoea graminiformis Meissn. 14188*Ipomoea pinifolia* Meissn. 14778*Ipomoea procurrens* Meissn. 14207*Ipomoea ramosissima* (Poir.) Choisy 14971*Jacquemontia secundiflora* (Fernald) O'Donnel 14901*Jacquemontia tamnifolia* (L.) Griseb. 14900

COMPOSITAE

det. by Bonnie C. Templeton, Los Angeles County Museum

The following is a preliminary report which is expected to be supplemented by a fuller account as soon as more thorough studies are completed.

The Compositae collections contained about 109 specimens of approximately 60 species. All but about fifteen of these came from the region of the Chapada dos Veadeiros, the remainder from the southern Serra Dourada.

SUBFAMILY LABIATAEFLORAE**Tribe Mutisieae**

Subtribe Mutisinae

Barnadesia roseo L. 15044

Chaptalia nutans Hemsley 14762 A medicinal herb from the town of Veadeiros. Its juice is used for malaria.

SUBFAMILY TUBULIFLORAE**Tribe Helianthoideae**

Subtribe Melampodieae

Acanthospermum australe (Loefl.) Kuntze (*A. brazilum* Schrank)
14166a

Subtribe Coreopsideae

Bidens cynapiifolia H.B.K. 14212

Bidens gardneri Baker 14383; 14212 (in part)

Bidens pilosa L. 14760 A medicinal herb from the town of Veadeiros.

Bidens tenera O.E. Schz. var. *paucidentata* (O.E. Schz.) Sherff 14760a

Subtribe Galinsogeae

Calea elongata Baker 14871; 14402

Calea hymenolepis Baker 14168

Subtribe Verbesineae

Viguiera bracteata Gardn. 14660a

Viguiera hispida Baker 14660b

Viguiera imbricata Baker 14280

Viguiera trichophylla Dusen 14623

Wulffia longifolia Gardn. 15099

Tribe Helenieae

Subtribe Tagetininiae

Porophyllum prenanthoides DC. 14979

Tribe Senecioneae

Subtribe Senecioninae

Erechtites hieracifolia (L.) Raf. 14906

Erechtites ignobilis Baker 14243

Erechtites valerianaefolia DC. 14393

Tribe Astereae

Subtribe Asterinae

Erigeron bonariensis L. 14899 No lower leaves present; only the inflorescence collected.

Subtribe Baccharidinae

Baccharis rufescens Spr. 14158

Baccharis subdentata DC. 14177

Tribe Eupatorieae

Subtribe Piquerinae

Adenostemma viscosum Forst. var. *brazilianum* Benth. 15024

Subtribe Ageratinae

Ageratum conyzoides L. 14761 A medicinal herb from the town of Veadeiros

Eupatorium capillare (DC.) Baker 14625

Eupatorium cryptanthum Sch.-Bip. 14170

Eupatorium gardnerianum Hieron. 14469

Eupatorium horminoides Baker 14825; 14187

Eupatorium kleinoides H.B.K. 14180

Eupatorium monardifolium Walp. 15050

Eupatorium squalidum DC. 14201

Eupatorium urticaefolium L. 14671

Mikania scandens Willd. 14937

Stevia elatior H.B.K. 14148

Stevia myriadenia Sch.-Bip. 14374

Trichogonia salviaefolia Gardn. 14440

Tribe Vernoniaeae

Subtribe Lychnophorinae

Elephantopus mollis H.B.K. 14371

Elephantopus riparium Gardn. 14404

Elephantopus scaber L. 14764 A medicinal plant from the town of Veadeiros. Tea made from it is used for ear-ache.

Elephantopus scaber var. *tomentosa* Sch.-Bip. 14208

Eremanthus goyazensis Sch.-Bip. 14750

Subtribe Vernoninae

Proteopsis eckmaniana Philip. 14686

Vernonia ammophyla Gardn. var. *vestita* Baker. 14174

Vernonia apiculata Mart. 14172

Vernonia brevipetiolata Sch.-Bip. 14184; 14763 A medicinal plant from the town of Veadeiros.

Vernonia grandiflora L. 14647

Vernonia hoveaefolia Gardn. 14281

Vernonia lacunosa Mart. 14167

Vernonia lychnophoroides Glaz. 14775

Vernonia geminata Less. 15099

Vernonia radula Mart. 14259

Vernonia salzmännii DC. 14210

Vernonia simplex Less. 14457

Vernonia varroniaefolia DC. 15040

Vernonia vernosissima Sch.-Bip. 14781

Vernonia zuccariniana Mart. 15038

LITERATURE CITED

Dawson, E. Yale

1957. The Machris Brazilian Expedition. Botany: General. Los Angeles County Museum, Cont. in Sci., 2:1-20.

Delacour, Jean

1957. The Machris Brazilian Expedition. General Account. Los Angeles County Museum, Cont. in Sci., 1:1-11.